

MATERIAL SAFETY DATA SHEET

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Sealed Air Corporation

Old Sherman Tnpk., Danbury, CT 06810, (203) 792-2360

ISSUE DATE _____

SUPERSEDES
ISSUE OF _____

EMERGENCY TELEPHONE NO:
(203) 792-2360

PRODUCT NAME

INSTAPAK[®] COMPONENT "A"

CHEMICAL FAMILY

Polymeric Aromatic Isocyanate

CHEMICAL FORMULA

N.A.

CHEMICAL NAME & SYNONYMS

Diphenylmethane Diisocyanate

TRADE NAME & SYNONYMS

Crude MDI

HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES	%	CURRENT TLV
Diphenylmethane Diisocyanate	50	.02 ppm

PHYSICAL DATA

APPEARANCE (SOLID, LIQUID, GAS)	MOLECULAR WEIGHT	MELT POINT	SPECIFIC GRAVITY
liquid	approx. 300	N.A.	1.24 @ 25°C
VAPOR DENSITY (AIR=1)	COLOR	BULK DENSITY	BOILING POINT
N.F.	Dark Brown	10.3 lbs./gal.	406°F @ 5 mmHg
VAPOR PRESSURE	SOLUBILITY (WATER)	ODOR	% VOLATILE BY VOLUME
less than 10 ⁻⁴ mmHg	Reacts with water		nil

FIRE & EXPLOSION DATA

FLASH POINT °F (METHOD USED)	FLAMMABLE LIMIT	EXTINGUISHING MEDIA
390°F P.M.C.C.	LeI N.F. Uel N.F.	Carbon dioxide, chemical foam, water spray
SPECIAL FIRE FIGHTING PROCEDURES, UNUSUAL FIRE OR EXPLOSION HAZARDS		
fire fighters must wear self contained breathing apparatus to protect against toxic and irritating vapors; full protective clothing should also be worn.		
Avoid water contamination in closed containers. Carbon dioxide gas is evolved.		

TOXICITY DATA

LD50 ORAL (INGESTION)	LD50 DERMAL (SKIN CONTACT)	INHALATION (LC50)
20 g/KG (rats)	15.88/KG (rabbits)	N.E.
FISH LC50 (LETHAL CONCENTRATION)	TLV (UNITS) (THRESHOLD LIMIT VALUE)	SKIN IRRITATION
N.E.	N.E. for this blend	Moderate. Skin sensitization possible in some people.
EFFECTIVE TO EYE	EFFECTS TO LUNG	OTHER
Irritant	Irritant to upper respiratory tract.	

EMERGENCY AND FIRST AID PROCEDURES: EFFECTS OF OVER EXPOSURE Over exposure may lead to mucous membrane irritation, tightness of chest, respiratory tract irritation, coughing, headache, and shortness of breath. May lead to allergic sensitivity in some individuals resulting in asthma-like symptoms upon subsequent exposures below TLV. Eye contact: flush with water for 15 min., consult physician. Skin contact: wash with tincture of green soap and water for 5 min.. Ingestion: drink water to reduce corrosivity, consult physician. Inhalation: remove to uncontaminated area, administer oxygen if necessary. However, due to low vapor pressure, overexposure not expected under normal conditions unless material is heated, or used in poorly ventilated area.

REACTIVITY DATA

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STABILITY	CONDITIONS TO AVOID
Stable	Avoid temperatures above 120°F or below 32°F
POLYMERIZATION	CONDITIONS TO AVOID
May occur	Contact with moisture and other materials which react with isocyanate.
INCOMPATIBILITY (MATERIALS TO AVOID)	
Water, strong bases, alcohols, metal compounds, or surface-active materials.	
HAZARDOUS DECOMPOSITION PRODUCTS	
Carbon monoxide, oxides of nitrogen, traces of hydrogen cyanide.	

SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Spill should be covered with loose, absorbant material (sawdust, oil dry) and tincture of green soap, which contains alcohol. Material should then be placed in open containers and treated with dilute ammonium hydroxide for 24 hours before disposal. Wash spill area with water and tincture of green soap. Ventilate area to remove vapors.
WASTE DISPOSAL METHOD
Incinerate or dispose of in accordance with existing Federal, State and local environmental control regulations. See also "Recommendations for Use and Handling of Instapak® Foam-in-Place Chemicals".

SPECIAL PROTECTION DATA

RESPIRATOR TYPE	Canister-type masks equipped for organic vapors; however, supplied air in areas of high concentration; self-contained units preferred.
EYE PROTECTION	Goggles and/or full face shields
GLOVES	Chemical resistant rubber or plastic
OTHER PROTECTIVE EQUIPMENT	Safety showers, eye wash stations, tincture of green soap, ventilation required during processing.

SPECIAL PRECAUTIONS & STORAGE DATA

STORAGE TEMPERATURE (OPTIMUM)	AVERAGE SHELF LIFE
Min. 20°F Max. 100°F	6 months
SPECIAL SENSITIVITY (HEAT, LIGHT, MOISTURE)	Reacts with moisture to produce carbon dioxide gas.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Do not reseal containers unless it is certain that no moisture contamination has occurred.

SHIPPING DATA

DOT SHIPPING NAME		TECHNICAL SHIPPING NAME	
N.A.		Polyisocyanate	
DOT HAZARD CLASSIFICATION	UN-NA NO	RQ	
Non-regulated			
DOT LABELS REQUIRED	LABEL	T.S.C.A. STATUS	
		Listed	
REASON FOR ISSUE	FRT CLASS BULK	Isocyanate	
Reissue on new form	FRT CLASS PKG	Chemicals N.O.I. (Isocyanate)	
INITIATED BY	TITLE	APPROVED BY:	TITLE
E. G. Laychak	Environ. Manager	Robert C. Ferris	V.P., Instapak
DATE INITIATED		DATE APPROVED	
October 1, 1982		October 1, 1982	

N.E. = NOT ESTABLISHED N.A. = NOT APPLICABLE A.I. = ACTIVE INGREDIENT

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